CIVIL TECH LABS

Accredited by **NABL** as per ISO / IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob : 96862 31801, Email: civiltechlabs@gmail.com

To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP, Bangalore-64.

2nd March 2015

Dear Sir,

Sub: Construction of drains at 1st, 2nd and 3rd cross wester side of Kamakshamma layout in Ward No. 02 of Yelahanka Sub Division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS
[illegible] Cross, Vishwa Circle, Yelahanka Road, Bangalore - 560 097.
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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BDMP
Name of Work	Construction of drains at 1st, 2nd and 3rd cross western side of Kunkeshamma layout in Ward No 02 of Yelahanka Sub Division
Name of Agency	Sri. Y.A. Dhanasekar
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 [Reaffirmed 2013]

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work	01/02/2015	01/03/2015	28	8.20	480	21.33	21.04
2					8.18	475	21.11	
3					8.16	465	20.67	

Note:
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Lab Incharge
Civil Tech Labs

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To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP, Bangalore-64.

2nd February 2015

Dear Sir,

Sub: Testing Materials.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Construction of drains at 1st, 2nd and 3rd cross wester side of Kamakshamma layout in Ward No. 02 of Yelahanka Sub Division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

TEST REPORT

TEST ON FINE AGGREGATES Ref:IS:383/2386

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of drains at 1st, 2nd and 3rd cross water side of Ganeshamma layout in Ward No. 02 of Yelahanka Sub Division.
Name of the Agency	Sri. Y. A. Dhanashekar
Date of Testing	31/01/2025
Specific Gravity	2.57

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970				Grading Zone
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV	
River Sand	10	100	100	100	100	100	II
	4.75	97.4	90-100	90-100	90-100	95-100	
	2.36	84.6	60-95	75-100	85-100	95-100	
	1.18	74.2	30-70	55-90	75-100	90-100	
	0.6	45.6	15-34	35-59	60-79	80-100	
	0.3	24.1	5-20	8-30	12-40	15-50	
	0.15	8.4	0-10	0-10	0-10	0-15	

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TEST REPORT

TEST ON COARSE AGGREGATES 40mm ↓ Graded Ref:IS:383/2386

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of drains at 1st, 2nd and 3rd cross westen side of Kamakshamma layout in Ward No. 02 of Yelahanka Sub Division.
Name of the Agency	Sri. Y. A. Dhanashekar
Date of Testing	01/01/2015
Specific Gravity	2.66
Water Absorption in %	0.29

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	100	100	Satisfies the requirement
40	97.8	95-100	
20	62.6	30-70	
10	23.4	10-35	
4.75	3.2	0-5	

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TEST REPORT

TEST ON COARSE AGGREGATES 20mm ↓ Graded Ref:IS 383/2360

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of drains at 1st, 2nd and 3rd cross wester side of Kamakshamma layout in Ward No. 02 of Yelahanka Sub Division.
Name of the Agency	Sri. V. A. Ghanashyam
Date of Testing	31/01/2015
Specific Gravity	2.62
Water Absorption in %	0.31

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
40	100	100	Satisfies the requirement
20	98.3	95-100	
10	32.6	25-55	
4.75	8.7	0-10	

Note:

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Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of drains at 1st, 2nd and 3rd cross western side of Ramakshemma layout in Ward No. 02 of Yelahanka Sub Division.
Name of the Agency	Sri. Y. A. Dharmshekar
Date of Testing	31/01/2015

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 3112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	54	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	IS-4031 (Part-5) 1988	VICAT	488	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	IS-4031 (Part-3) 1989	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

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TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 16mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of drains at 1st, 2nd and 3rd cross wester side of Kamakshamma layout in Ward No. 02 of Yelahanka Sub Division.
Name of the Agency	Sri. Y. A. Dhanashekar
Date of test	31/01/2015

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	16	16	Satisfactory
2	Wt/m Length (Kg/m)	1.59	1.58	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.4	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	424	415	Satisfactory
6	U T S (N/Sq.mm)	530	485	Satisfactory

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TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 12mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, GDMP
Name of Work	Construction of drains at 1st, 2nd and 3rd cross westerside of Kanakshamma layout in Ward No. 02 of Yelahanka Sub Division.
Name of the Agency	Sri. Y. A. Dhanashekar
Date of Test	31/01/2015

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.1	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	422	415	Satisfactory
6	U T S (N/Sq.mm)	528	485	Satisfactory

Note:

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TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 10mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of drains at 1st, 2nd and 3rd cross wester side of Kamakshamma layout in Ward No 02 of Yelahanka Sub Division
Name of the Agency	Sri. Y. A. Dhanashetar
Date of Testing	31/01/2015

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.9	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	420	415	Satisfactory
6	U T S (N/Sq.mm)	525	485	Satisfactory

Note:

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TEST REPORT

TEST REPORT ON REINFORCEMENT STEEL BARS 8 mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of drains at 1st, 2nd and 3rd cross wester side of Kamakshamma layout in Ward No. 02 of Yelahanka Sub Division.
Name of the Agency	Sri. Y. A. Dhanasheker
Date of Test	31/01/2015

SLNo.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	8	8	Satisfactory
2	Wt/m Length (Kg/m)	0.397	0.395	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.7	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	418	415	Satisfactory
6	U T S (N/Sq.mm)	522	485	Satisfactory

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